

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for preparing a mesoporous composition, comprising the steps of:

(A) dissolving a first compound possessing amphipathic properties together with an alumina source in a first solvent to form a mixture, wherein said first compound comprises polyethyleneoxide moieties;

(B) stirring the mixture of step (A);

(C) adding a second solvent to the stirred mixture of step (B) accompanied by further stirring;

aging the further stirred mixture of step (C) to form a product, wherein the aging is carried out for 2-7 days;

evaporating the product of step (D); and,

washing, filtering and drying the evaporated product of step (E).

2. (Original) The method of claim 1, wherein the first compound of step (A) is an alpha-tocopherol polyethylene glycol ester.

3. (Original) The method of claim 2, wherein the alpha-tocopherol polyethylene glycol ester is d-alpha-tocopheryl polyethylene glycol succinate (vitamin E TPGS).

4. (Original) The method of claim 1, wherein the first solvent of step (A) is selected from the group consisting of sec-butanol, ethanol and water.

5. (Original) The method of claim 1, wherein the alumina source is Al tri-sec-butoxide.

6. (Original) The method of claim 1, wherein step (B) is carried out at 25-30C for 3-4 hours.
7. (Currently Amended) The method of claim 1, wherein the aging in step (D) is carried out at 70 - 95 °C ~~for 2-7 days~~.
8. (Currently Amended) The method of claim ~~[[7]]~~ 1, wherein the aging in step (D) is more preferably carried out at 90C for 2 days.
9. (Original) The method of claim 1, wherein the product of step (D) is evaporated at 90C for 10 hours.
10. (Original) The method of claim 3 wherein, the amount of vitamin E TPGS ranges from 0.3 to 0.9 g.
11. (Original) The method of claim 4 wherein, the amount of sec-butanol is 25 ml.
12. (Original) The method of claim 1, wherein said second solvent comprises water and sec-butanol.
13. (Original) The method of claim 12, wherein the amount of water is 1.08g and the amount of sec-butanol is 10 ml.
14. (Original) The method of claim 1, wherein the further stirred mixture of step C comprises alumina, vitamin E TPGS, water and sec-butanol.
15. (Original) The method of claim 14, wherein the molar ratio of alumina, vitamin E TPGS, water and sec-butanol is 100:1-3:300:270.
16. (Withdrawn) A mixture for the preparation of a mesoporous composition comprising vitamin E TPGS, sec-butanol, water and an alumina source.
17. (Withdrawn) The mixture of claim 16, wherein the alumina source is an alumino-silicate, a metallo-aluminate, an organo-aluminate or a mixture thereof.

18. (Withdrawn) The mixture of claim 16, wherein the alumina source is Aluminum-tri-sec-butoxide.

19. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1-3:300:270 respectively.

20. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1:200:35 respectively.

21. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1:300:35 respectively.

22. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:2:300:35 respectively.

23. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1:300:70 respectively.

24. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:2.5:300:35 respectively.

25. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:3:300:35 respectively.

26. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1:200:35 respectively.

27. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:1:300:35 respectively.

28. (Withdrawn) The mixture of claim 18, comprising alumina, vitamin E TPGS, water and sec-butanol in the ratio 100:2:300:35 respectively.

29. (Withdrawn) A mixture for the preparation of a mesoporous composition comprising vitamin E TPGS, ethanol, water and an alumina source.

30. (Withdrawn) The mixture of claim 29 comprising, alumina, vitamin E TPGS, water and ethanol in the ratio 100:1:200:35 respectively.

31. (Withdrawn) The mixture of claim 29 comprising, alumina, vitamin E TPGS, water and ethanol in the ratio 100:1:300:35 respectively.

32. (Withdrawn) The mixture of claim 29 comprising, alumina, vitamin E TPGS, water and ethanol in the ratio 100:2:300:35 respectively.

33. (Withdrawn) The mixture of claim 29 comprising, alumina, vitamin E TPGS, water and ethanol in the ratio 100:1.5:300:35 respectively.

34. (Withdrawn) A mesoporous composition suitable for use in a drug delivery system prepared from a mixture comprising alumina, vitamin E TPGS, water and sec-butanol.

35. (Withdrawn) The mesoporous composition of claim 34, wherein the composition is insoluble in water relative to ethanol.

36. (Withdrawn) The mesoporous composition of claim 34, wherein the encapsulated vitamin TPGS is released when exposed to solutions having a pH of 1.2.

37. (Withdrawn) The mesoporous composition of claim 36 wherein the vitamin E TPGS is released as a micelle.

38. (Withdrawn) The mesoporous composition of claim 37 wherein the vitamin E TPGS micelle encapsulates lipophilic or pH sensitive drugs.